KLIMENOK, B.V.; KONDRAT'YEV, A.A.; Prinimali uchastiye: BASYROVA, Z.V.; YELEPINA, V.I.; ZEMLYANSKIY, A.T.; PIHKIS, L.N.; STARTSEVA, T.X.; YANTSEN, Ya.Ya.

Counter-current herizontal extractor for processing hard materials.

Izv. vys. ucheb. zav.; neft' i gaz 4 no.2:75-77 '61.

(MIRA 15:5)

(Paraffins) (Diesel fuels)

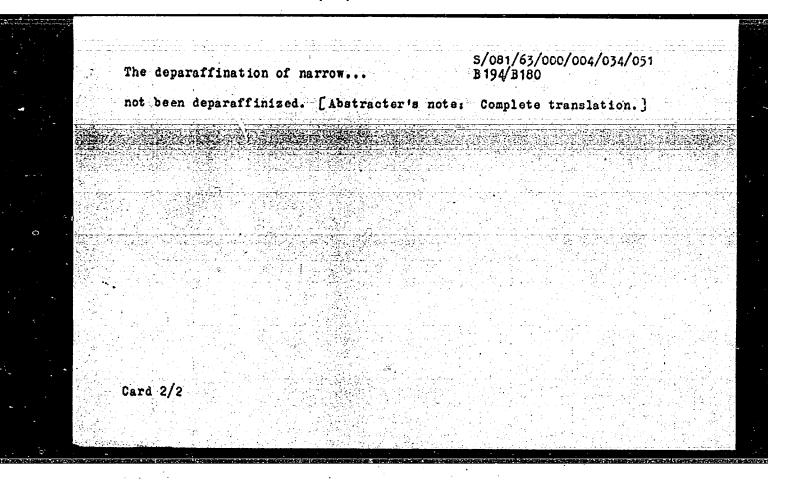
S/081/63/000/004/034/051 B194/B180

AUTHORS: Basyrova, Z. V., Zemlyanskiy, A. T., Klimenok, B. V.

TITLE: The deparaffination of narrow fractions of diesel fuel with an aqueous solution of carbamide

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 521, abstract
4P160 (Novosti neft. i gaz. tekhn. Neftepererabotka i neftem
khimiya", no. 7, 1962, 19-21)

TEXT: Results are given for the deparaffination and blending of narrow 30° fractions of paraffinous diesel fuel (distillation range 195-370°) of Tuymazinsk (crude) in a continuous carbamide deparaffination plant (carbamide concentration in the aqueous suspension is 74 wt/%). On the basis of the results a process is suggested for the production of winters grade diesel fuel with pour point -45°, in which the diesel fraction taken from the rectifying column in accordance on AVT is divided into two fractions, 195-290° and 290-370°. The latter, which comprises 47 vol% of the total diesel fraction, is hydraulically refined and undergoes deep deparaffination with an aqueous solution of carbamide. After this the deparaffinized 290-370° fraction is mixed with the 195-290° fraction which has Card 1/2



L 17945-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM ACCESSION NR: AP5002561 Pc-4/Pr-4 S/0079/64/034/007/2226/2228

AUTHOR: Petrov, K. A.; Basyuk, A. A.; Yevdakov, V. P.; Mizrakh, L. I.

TITLE: Thiophosphinites

SOURCE: Zhurnal obshchey khimii, v. 34, no. 7, 1964, 2226-2228

TOPIC TAGS: organic phosphorus compound, organic synthetic process, ester, esterification

Abstract: Alkyl- and arylthiophosphinites were synthesized by the reaction of monoalkyl esters of methyl- and phenylphosphinous acid with phosphorus pentasulfide, in yields of 36-40% of the corresponding thiophosphinite, with an admixture of dithiophosphonates. The thiophosphinites were found to be highly reactive. Reaction of the n-butyl and n-propyl esters of methylthiophosphinous acid with tetraethylmethylenediamine produced previously unknown O-n-butyl- and O-n-propylmethyldiethylaminomethylthiophosphinates. Sulfuryl chloride converted O-n-propylmethylthiophosphinite to the acid chloride of the n-propyl ester of methylthiophosphinic acid. The ability of thiophosphinites to enter into a transesterification reaction was demonstrated for the first time; transesterification of the ethyl ester of phenylthiophos-

Card 1/2

L 17945-65

ACCESSION NR: AP5002561

0

phinous acid with n-hexanol produced the n-hexyl ester of phenylthiophos-

phinous acid. Orig. art. has 3 formulas.

ASSOCIATION: none

SUBMITTED: 15Jun63

ENCL: 00

SUB CODE: OC GC

NO REF SOV: 002

OTHER: 001

JPRS

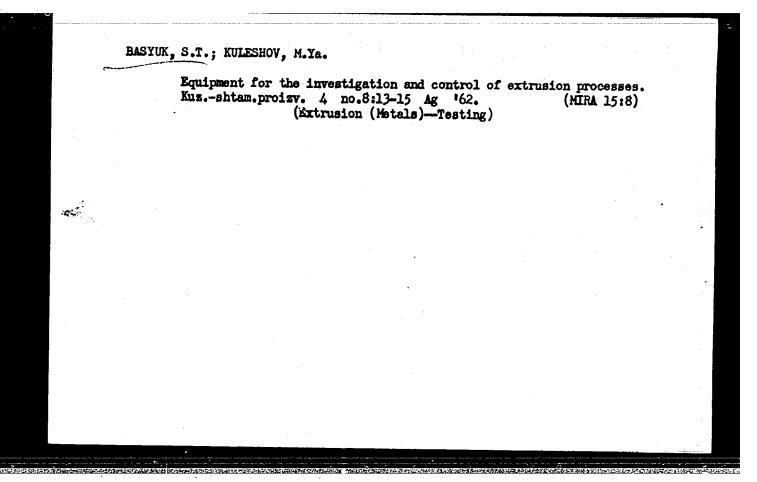
Card 2/2

BASYUK, A. Ye.; SHOR, G.P.

Some characteristics of closed abdominal trauma in children. Sov. med. 27 no.10:49-52 0 163. (MIRA 17:6)

1. Iz Kostopol'skoy rayonnoy bol'nitsy (glavnyy wrach S.Ya. Cormakh) Rovenskoy oblasti.

-	BASYUK, M.P.															
		Manufacture of pureed fruit				uit.	Khar.prom. no.4:26-28				O_D	0-D '62. (MIRA 16:1)				
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Universal die for determining cenditiehs for stretch ferming. Eng.-shtsm.preizv. 5 ne.5:21 My 163. (MIRA 16:9)

L 27.081-65 EPR/EMP(k)/EMT(m)/EMP(b)/EMA(d)/EMP(t) Pf- μ /Ps- μ / LJP(c)/

ACCESSION NR: AP4049119

8/0182/64/000/011/0019/0023

AUTHOR: Solov'yev, V. P.; Basyuk, S. T.; Kuleshov, M. Ya.

TITLE: Manufacture of seamless, thin-walled pipes and casings

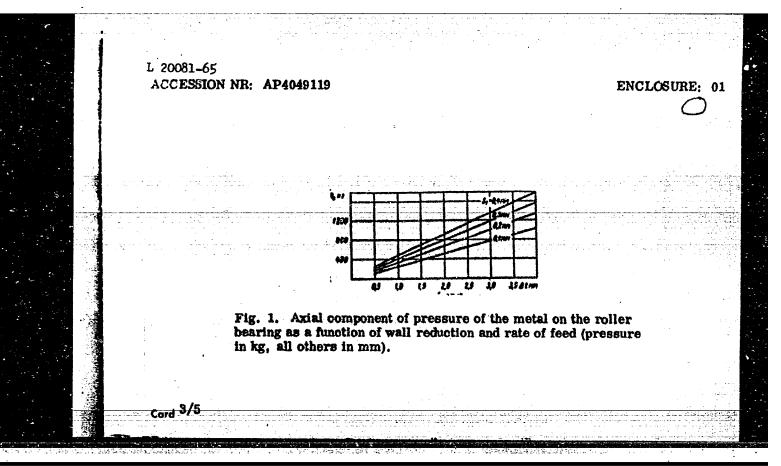
SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 11, 1964, 19-23

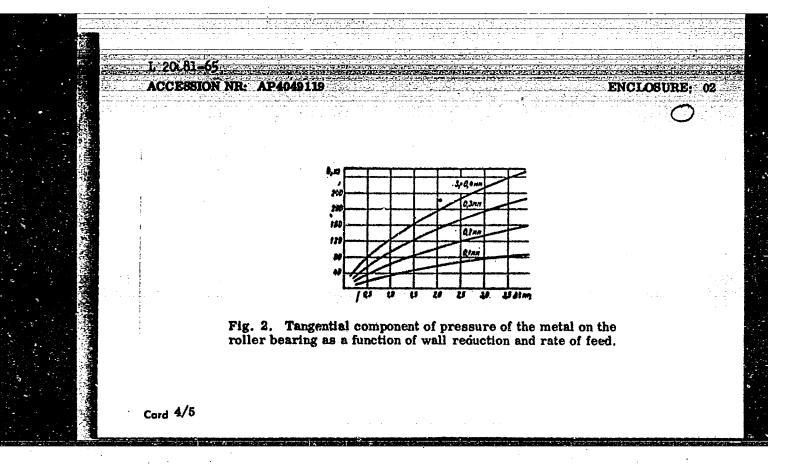
TOPIC TAGS: pipe rolling, cold milling, seamless pipe manufacture, seamless casings manufacture, rolling mill design, aluminum rolling

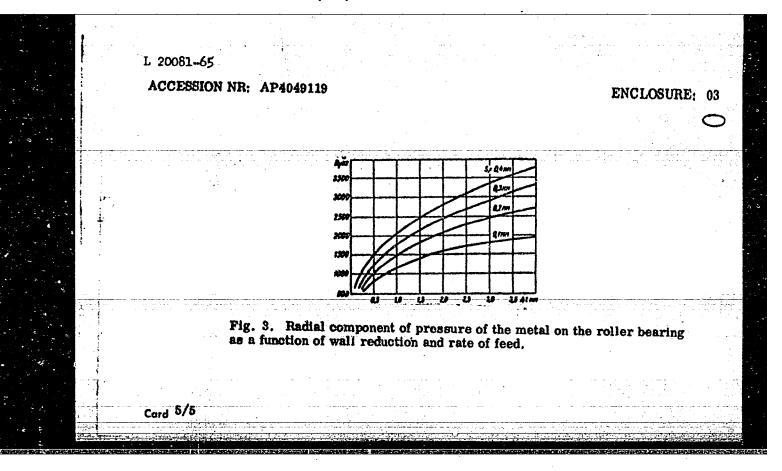
ABSTRACT: Cold milling of seamless pipes and casings with specially-prepared roller bearings instead of ordinary rollers decreases the area more efficiently and permits direct rolling, rather than reflex or back-and-forth rolling. This method is distinguished by the speed of rotation of the pieces, which is a function of the size of the pipe, its relation to the size of the roller bearings, and the rate of spin of the pipe; the rate of the feed, which is also a function of the rate of spin and size relationships; the size reduction of the pipewalls, which for aluminum is such that the tangential angle of the leading roller edge should be no more than 20-22°; and the pressure of the metal piece on the roller bearing, which is a function of the projected area of surface contact. Analysis of the rotation of the pieces shows that a rotation speed > 100m/min produces slippage which adversely affects the internal surface of the pipe, increases friction loss, and has no effect on the rate of feed.

Card 1/5

	L 20081-65 ACCESSION NR: AP4049119		0					
	The axial, radial, and tangential components of pressure were determined as functions of the size reduction of the walls and the feed (see Figs. 1, 2, and 3 of the Enclosure). Ori art. has: 4 graphs, 6 drawings, and 14 equations.							
	ASSOCIATION: none	ikan di kacamatan da kacamatan d Kacamatan da kacamatan da kacama						
	SUBMITTED: 00	ENCL: 03	JB CODE: MM, IE					
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BASYUK, T. L.

BASIUK, T. L.

Organizatsiia sotsialisticheskogo sel'skokhoziaistvennogo proizvodstva.

Izd. 3., perer. i dop. Moskva, Sel'khozgis, 1947. 767 p.

"Spisok ispol'zovannoi literatury": p. 761
DLC: S241.B36 1947

DA

SO: LC, Soviet Geography, Part I, 1951, Uncl.

PASYUK, T.L.
Organizatsiia sovkhoznogo proizvodstva (Organization of state farm production). Moskva,

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

Sel'khozlit, 1952. 375 p.

BASYUK, T.

Farm Mechanization

Machinery system in agriculture. Sots. sel'khoz., no. 2 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920006-9"

es estamentado e en esta por acomo a tilis de tropo de manera motornido e de esta promoto esta contrata esta m

BASYUK T. L.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions amnounces that the following actentific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Pascow, No. 22-10, 20 Feb - 3 Apr 1954)

Now

Title of Work

Nominated by

Basyuk, T. L.

"Organization of Sovkhoz Moscow Economics Institute Froduction"

SO: W-30604, 7 July 1954

BASYUK, T L

MTS - reshayushchaya sila v razvitii kolkhoznogo proizvodstva .B3

(Machine-Tractor Stations are the Deciding Factor in the Development of Collective Farm Production) Moskva, Gospolitizdat, 1954.

229p. tables.

Bibliographical footnotes.

BASYUK, Timofey Leont'yevich, doktor ekonomicheskikh nauk, professor;
AMDROMOV, I.I., redaktor; ISLEFF'YEVA, P.G., tekhnicheskiy redaktor

[Principal methods of increasing labor productivity in socialist agriculture] Osnovnye puti povysheniia proizvoditel'nosti truda v sotsialisticheskom sel'skom khosimistve. Noskva, Isd-vo "Znanie," 1956. 47 p. (Vsesciusnoe obshchestve po rasprostraneniiu politicheskikh i nauchnykh snanii. Ser. 8, Ekonomika sel'skogo khosimistva, vyp.2, no.1) (MLRA 9:11)

(Agriculture) (Labor productivity)

BASYUK. Timofev Leont'vevich: POLYAKOVA, N., redsktor; DANILINA, A., tekhnicheskiy redsktor

[Organisation of socialist agricultural production; a textbook]
Organisatelia sotsialisticheskogo sel'skokhosiaistvennogo proisvodstva;
uchebnik, Moskva, Gos. isd-vo polit. lit-ry, 1956. 455 p; (MIRA 10:1)
(Agriculture)

BASTUK, Timofey Leont'yevich, doktor ekonom.nauk; ASTAKHOV, V., red.; CHEPELEVA, O., tekhn.red.

[Differential rent in socialist agriculture] Differentsial naia renta v sotsialisticha akom sel'skom khoziaistve. Moskva, Izd-vo sotsial no-kon, lit-ry, 1959. 56 p.

(Agriculture—Economic aspects)

EASYUK, Timofey Leont'yevich; RYBAKOVA, V.D., red.; GERASIMOVA, Ye.S., tekhn. red.

[Organization of socialist agricultural production] Organizatsiia sotsialisticheskogo sel'skokhoziaistvennogo proizvodstva. Moskva, Ekonomizdat, 1962. 483 p. (MIRA 15:7)

(Farm management)

AKOPOV, R.Ya., kand. ekon. nauk, dots.; BASYUK, T.L., doktor ekon. nauk, prof.; BIRMAN, A.M., doktor ekon. nauk, prof.; GRIGOR'YEV, A.Ye., doktor ekon. nauk, prof.; DOKUKIN, V.I., prof.; IKONNIKOV, V.V., prof.; KONDRASHEV, D.D., doktor ekon. nauk; KURSKIY, A.D., doktor ekon. nauk; LOKSHIN, E.Yu., doktor ekon. nauk, prof.; MALYY, I.G., kand. ekon. nauk, dots.; PERVUSHIN, S.P., kand. ekon. nauk; PLOTNIKOV, K.N., TYAPKIN, N.K., kand. ekon. nauk; FILIMDNOV, N.P., kand. ekon. nauk; SHAFIYEV, K.N., doktor ekon. nauk, prof.; BAKOVETSKIY,O., red.; KOKOSHKINA, I., mladshiy red.; MOSKVINA, R., tekhn. red.

[Economics; communist means of production]Politicheskaia ekonomia; kommunisticheskii sposob proizvodstva. Uchebnik 2., perer. i dop. izd. Moskva, Sotsekgiz, 1963. 599 p.

(MIRA 16:5)

1. Chlen-korrespondent Akademii nauk SSSR (for Plotnikov).
(Economics) (Communism)

BASYUK, T.L., doktor ekon. nauk, prof., red.; OBOLENSKIY, K.P., dok r ekon. nauk, prof., red.; FANIR, N.S., red.

[Using mathematical methods for economic studies in agriculture] Primenenie natematicheskikh metodov v ekonomicheskikh issledovaniakh po sel'skomu khoziaistvu.

Moskva, Ekonomika, 1964. 354 p. (MIRA 17:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva.

BASYUK, Timofey Leont'yevich; KOSTIN, V.P., red.

[Organisation of socialist agricultural production]
Organisatsila sotsialisticheskogo sel'skokhosiaistvennogo proisvodstva. Moskva, Ekonomika, 1965. 531 p.
(MIRA 18:7)

ZHUKOV, A.V., kand. tekhn. nauk, red.; EASYUK, V.N., red.; YEREMINA, I.A., tekhn. red.

[Structural and facing ceramics] Konstruktivnaia i oblitso-vochnaia keramika. Pod red. A.V.Zhukova. Kiev, Gosstroiizdat USSR, 1963. 74 p. (MIRA 17:3)

1. Gosudarstvennyy nauchno-issledovatel skiy inctitut stroitel nykh materialov i izdeliy.

SEMENOV, Vladimir Konstantinovich; YEFRELOV, Yuriy Mikhayl vich; KERNERMAN, Yakor Srulevich; TYNYANYY, Viktor Grigor'yevich; RASYUK, V.N., red.

[Improving the design of cranes] Usovershenstvovanie konstruktsii kranov. Kiev, Budivel'nyk, 1965. 80 p.
(MIRA 18:9)

Susceptibility of Brand's vole to experimental tularemia. Izv. Irk. gos.protivochum.inst. 9:50-52 '51. (MIRA 10:12)

(TULAREMIA)

BASYUKOV, I. Ye.

Engr.

"Experience of the Work of the Bureau for Coordination of Improvements and Inventions of MinMashstroy," Byul. stroi. tekh., No.5, pp 19-20, 1953

Bureau for Coordination of Improvements and Inventions.

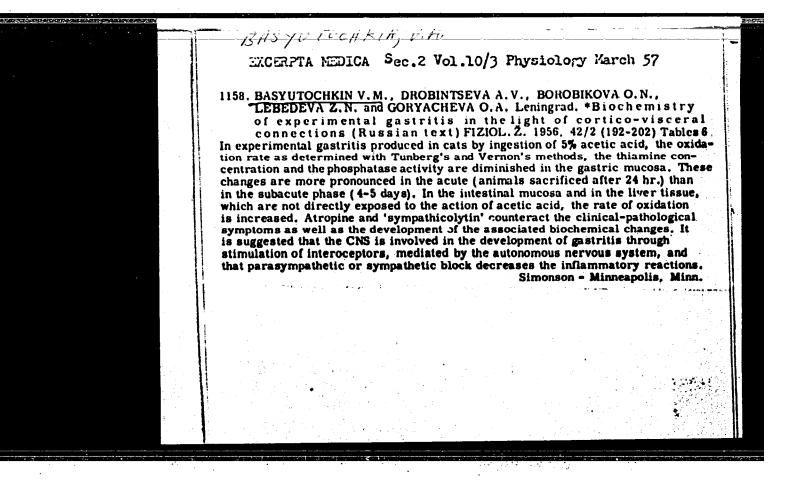
States that, for the guidance of inventora and improvers, a collection of subjects (Sbornik tem) was published in 1952 by the Bureau. The publication covers Construction questions. It differs from publications of previous years in that the subjects are treated in detail, with an indication of the basic requirements. States that Mirmashstroy gives material containing descriptions of individual improvement suggestions to the Central Institute of Information on Construction, for publication in series RI brochures.

EASYUL, N.K.
BISKER, I.M., MOTORNYY, I.A., KRASIL'SHCHIKOV, A.M., BASYUL, N.K.

Effect of low temperatures on the quality of concentrated emulsions of LET and benzene hexachloride. I.M. Bisker and others. Med. paras. i paras. bol. 27 no.2:228 Mr-Ap '58 (MIRA 11:5)

1. Iz Respublikanskoy protivomalyariynoy stantsii Moldavskoy SSR (glavny; vrach I.M. Bisker)
(INSECTICIDES)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203920006-9"



SIENNICKI, W.; FEZTLECKI, St.; BASZ, I.; CYGANKIRWICZ, M.; RADZISZEMSKA, D. (Wroclaw)

Occurrence of brucellosis in the veterinary and scotechnical personnel in Wroclaw Voivodeship. Rocs nauk roln wet 70 no.1/4:204-206 '60. (KEAI 10:9)

(Brucellosis)

SIENNICKI, W.; PRZYLECKI, St.; BASZ, I.; CYGANKIEWICZ, M.; RADZISZEWSKA, D. (Wroclaw)

Brucellosis among the personnel of state farms in Wroclaw Voivodeship. Rocz nauk roln wet 70 no.1/4:206-208 160. (EEAI 10:9)

(Brucellosis)

SIENNICKI, W.; PRZYLECKI, St.; BASZ, I.; CYGANKIEWICZ, M.; PIORO, J. RADZISZEWSKA, D. (Wroclaw)

Brucellosis among the workers of the dairies and meat processing plants of Wroclaw Voivodeship. Rocs nauk roln wet 70 no.1/4: 208-209 160. (EEAI 10:9)

(Brucellosis)

GARSTKA, Jerzy; BASZYNSKA, Dorota

Halotan anaesthesia in orthopedic surgery. Chir. narzad. ruchu ortop. Pol. 28 no.7:1025-1028 '63

1. Z Kliniki Ortopedycznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr. W. Dega).

SOBANSKI, Janusz, prof. dr. med.; SZOSLANDOWA, Wanda; DOL JALOWA, Barbara;
BASZCZYNSKA-ZIELINSKA, Barbara

The cuases of "primary" and "secondary" glaucoma. Klin. oczna 35 no.2:179-181 465.

1. Z Kliniki Chorob Oczu Akademii Medycznej w Lodzi (Kierownik: prof. dr. med. J. Sobanski).

BASZCZYNSKI, Jan; MAJCHERSKI, Tadeusz

Interstitial myocarditis in a 14-month-old child. Pediat. pol. 37 no.91965-970 S '62.

Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr med.
 Redlich. (MYOCARDITIS)

BASZCZYNSKI. J.; BODALSKI, J.; HORSKI, S.; JAROSIK, N.; KWIATKOWSKA, M.; MACIEJENSKI, A.; REDLICH, J.

Morgagni-Adams-Stokes syndrome in a 10-year-old boy; clinical death and resuscitation by prolonged direct heart massage. Kardiol.pol. 6 no.4:259-265 *63.

1. Z II Kliniki Pediatrycznej AM w Lodzi (kierownik:prof. dr. F.Redlich); z Kliniki Chirurgii Dzieciecej AM w Lodzi (kierownik: prof.dr. A.Maciejewski) i z Kliniki Neurologicznej AM w Lodzi (kierownik: prof. dr. E.Herman).

BASZCZYNSKI, J.; DEBIEC, B.; NOWICKI, St.

Acute forms of endocardial fibroelastosis in an infant. Kardiol. pol. 6 no.4:281-284 163.

1. Z II Kliniki Pediatrycznej AM i WAM w Lodzi; kierownik: prof.dr. F.Redlich.

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BASZCZYNSKI, J.; MAJCHERSKI, T. ZAWADZKI, R.

A primary tumor of the heart in an infant, hamartia myoelasto-fibroidea. Kardiol. pol. 6 no.4:285-289 :63.

1. Z II Kliniki Pediatrycznej AM w Lodzi; kierownik:prof. dr. F.Redlich.

1

BASZCZYNSKI, Jan; MAJCHERSKI, Tadeusz; NOWICKI, Stanislaw

A case of hypersensitivity to vitamin D. Pediat. pol. 38 no.1:

1. Z II Kliniki Pediatrycznej AM w Lodzi Kierownik: prof. dr med. F. Redlich. (VITAMIN D2) (RICKETS) (BRONCHITIS) (HYPERCALCEMIA) (DRUG ALLERGY)

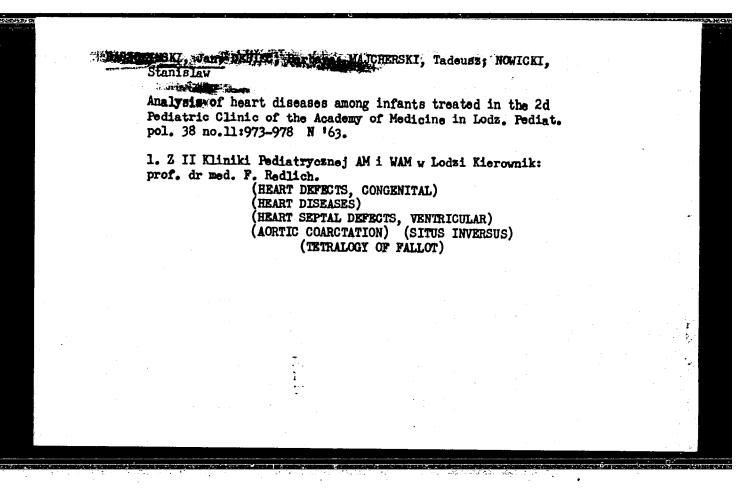
BASZCZYNSKI, Jan; MAJCHERSKI, Tadousz; NOWICKI, Stanislaw;

Contribution to Ivemark's syndrome. Pediat. pol. 38 no.10: . 927-931 0 '63.

1. Z II Kliniki Pediatrycznej AM i WAM w Lodzi Kierownik: prof. dr med. Fr. Redlich i z Pracowni Anatomopatologicznej PSK nr 4 Kierownik: lek. R. Zawadzki.

(SITUS INVERSUS) (HEART DEFECTS, CONGENITAL)

(SPLEEN) (ABNORMALITIES)



_BASYCZYNSKI, J.; MEMATICHON, G.; DONICKI, U.; VARRAMEI, H.

Myocardial infarction in a 2-month-old infant with primary Pulmonary hypertension. Eardiol. Pol. 7 nc.1:63-68 464.

1. Z Il Kliniki Pediatrycznej Akademii Medycznej (Kierownik: prof. dr. E. Redlich) i z Pracowni Anatomopatologicznej Panstw. Szpitala Klinicznego Nr. 4 w Lodzi (Kierownik: dr. E. Fawadzki).

BASZCZYNSKI, Jan; DEBIEC, Barbara; SUMINSKA, Henryka

Duodenal perforations in children during therapy with adrenal cortex hormones. Pediat. Pol. 40 no.6:623-626 Je 165.

1. Z II Kliniki Pediatrycznej AM w Lodzi (Kierownik: prof. dr. med. F. Redlich [deceased]) i z Kliniki Chirurgii Dzieciecej AM w Lodzi (Kierownik: prof. dr. med. A. Maciejewski).

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DEBIEC, Barbara; BASZCZYNSKI, Jan; BIELINSKA, Wanda; CHYLINSKA, Hanna

Bacterial endocarditis in children in the era of antibiotics. Pediat. Pol. 40 no.8:809-814 Ag 165.

1. Z II Kliniki Chorob Dzieci AM i Wojskowej AM w Lodzi (Kierownik: prof. dr. med. F. Redlich [deceased]).

s/081/62/000/019/031/053 B101/B180

5.3630

AUTHORS:

Boryniec, Atanazy, Baszkiewicz, Bogumit

TITLE:

Synthesia and properties of organophosphorus copolymers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1962, 510, abstract 19P52 (Roczn. chem., v. 36, no. 2, 1962, 365-366 Fol.;

summary in Eng.])

TEXT: Bulk polymerization was used to produce copolymers of phenyl dichloro phosphine with vinyl acetate, methyl methacrylate, and styrene (at different ratios of components). The copolymer of phenyl dichloro phosphine with vinyl acetate was saponified. The properties of the resulting products were studied. Abstracter's note: Complete translation

Card 1/1

BASZKIN, Adam, mgr. ins.

Serigraphy. Poligrafika 14 no.3:3-4 Mr '62

1. Centraline Laboratorium Poligraficzne, Warszawa

TKACZEWSKI, Wladyslaw; BASZKO, Alfons; PELKA, Wlodzimierz

Rhythm and conduction disorders in acute myocardial infarction treated with hyaluronidase. Wiad. lek. 18 no.4:341-344 15 F'65

1. Z III Kliniki Chorob Wewnetrznych Wojskowej Akademii Medycznej w Lodzi (Kierownik: prof. dr. med. A. Himmel).

BASZOV, N.G.

Semiconductor quantum generators. Technika 8 no.12:2

1. Corresponding Member of the Academy of Sciences of the $\text{U.S.S.R.}_{\bullet}$

BASZINSKI, Boleslaw, mgr inz.; POSZWINSKI, Kazimierz, mgr;

Certain problems occurring in managing the water resources of Poland. Gosp wodna 24 no. 1: 4-7 Ja *64.

BASZYNSKI, Boleslaw, mgr inz.; PASZWINSKI, Kazimierz, mgr

Construction of sewage purification stations must be given highest priority among capital investments. Przegl techn 85 no.2:4 12 Ja 164.

BASZYNSKI, Janusz

Electric conductivity of Ni Fe₂ O₄ ferrite. Acta physica Pol 21 no.4:351-358 Ap 162.

1. Ferromagnetic Laboratory, Institute of Physics, Polish Academy of Sciences, Posnan.

BASZYESKI, James

Ferrimagnetics of composition MnFe $_{2-x}$ Cr $_{x}$ 0 $_{4}$ and MnFe $_{2-x}$ 1 $_{x}$ 0 $_{4}$ with 0 \leq X \leq 2. Acta physica Pol 24 no.3:445-446 S¹⁶³ l. Ferromagnetic Laboratory, Institute of Physics , Polish Academy of Sciences, Poznan.

BASZGZYNSKI, J., LEWANDOWICZ, J., NOWICKI, S., ZAWALZKI, P.

Myocardial infarction in a 2-month-old infant with primary Pulmonary hypertension. Kardiol. Pol. 7 no.1:63-68 '64.

1. Z II Kliniki Pediatrycznej Akademii Medycznej (Kierownik; prof. dr. E. Redlich) i z Pracowni Anatomopatologicznej Panstw. Szpitala Klinicznego Nr. 4 w Lodzi (Kierownik; dr. R. Zawadzki).

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B SECURE, 5.

"Problem of Mells in Rural Settlementa", p. 6, (608.0800EM MDEM, Vol. 15, No. 1, Jan. 1955, Marsaume, Foland)

SO: Monthly List of East European Accessions, (NEAL), La, Vol. 4, No. 5, Nay 1955, Nacl.
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BASZYNSKI, S.

BASZYNSKI, S. Production cost of electric power in culture and forestry. p. 512. Vol. 16, no. 12, Dec. 1956; GOSPODARKA WCDNA. Warszawa, Poland.

SCURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

BASZYNSKI, S.

TECHNOLOGY

PERIODICAL: GOSPODARRA WODNA. Vol. 18, no. 8, Aug. 1958. BASZYNSKI, S. Cost of hydraulic structures. p. 335.

Monthly List of East European Accessions (LEAI) LC Vol. 8, no. 4.

April 1959, Unclass

BASZYNSKI, S.

TECHNOLOGY

PERIODICAL: GOSPODARKA WODNA. Vol. 18, no. 9, Sept. 1958

BASZYNSKI, S. Development of hydroelectric power in the Soviet Union as

compared with the world development. p. 382.

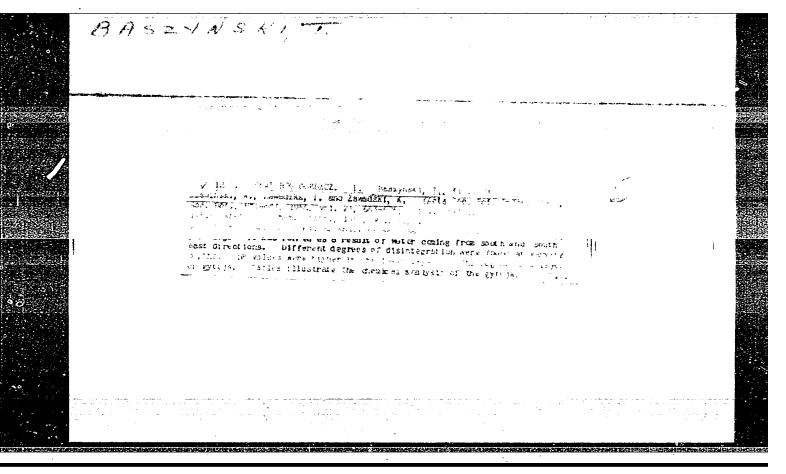
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April 1959, Unclass

BASZYNSKI, T.

"C urves of the Levels of Vitamin A and Carotene in Blood and Milk of Cows of the Red Danish race during the period of a year." p. 339. (Acta Physiologica Polonica. Vol., 4. no. 4, 1953 Warszawa.)

Vol. 3, no. 6 SO: Wonthly List of East European Accessions./Library of Congress, June 1954, Uncl.



BASZYNSKI, Tadeusz

Tocopherols and their role in plants. Postepy nauk roln 6 no.6: 39-54 N-D *59. (EEAI 9:7)

l. Katedra Fizjologii Roslin Uniwersytetu Marii Curie-Sklodowskiej w Lublinie (Tocopherols) (Plants)

CZECZUGA, B.; BASZYNSKI, T.

Some hydrochemical data of the waters of Lake Rajgrod. Polskie archiw hydrobiol 11 no: 3: 267-274 163.

1. Zaklad Biologii, Akademia Medyczna, Bialystok.

Z/056/62/019/002/005/014 I037/I242

AUTHORS:

Bat', A., and Gladstejn, L.

TITLE:

Plastic deformation of steel foil on cold rolling

PERIODICAL:

Přehled technické a hospodářské Literatury, Hutnictví a strojírenství, v.19, no.2, 1962, 93, abstract HS 62-1187 (Prom. stroit., v.39, no.7, 1961, 18-22

TEXT: The immersion evaluation determines the smallest radius of curvature during the cold rolling of sheets for construction of vessels, kettles, etc. Experimental evaluation of the magnitude of plastic deformations, at which the construction steel still preserves the necessary transduction properties. The characteristics of investigated Soviet steel. The minimal bending radius of sheets of low-

Card 1/2

2/056/62/019/002/005/014 **1037/1242**

Plastic deformation of steel...

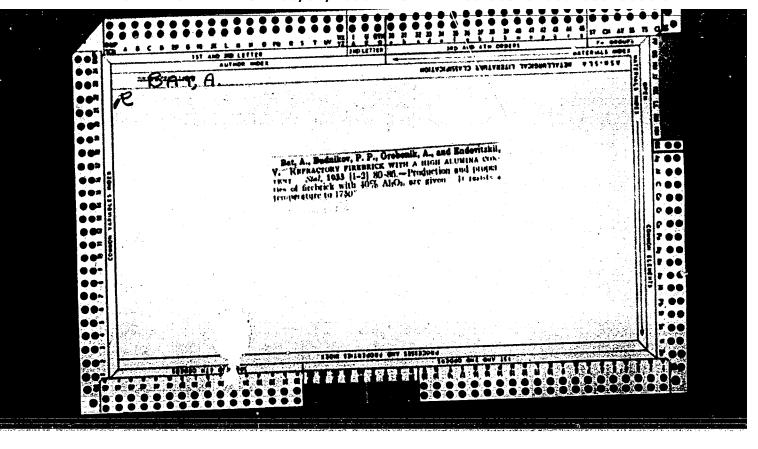
alloyed steel with a low carbon content, destined for statically or dynamically stressed structures at positive or negative temperatures. 1 drawing, 4 diagrams, 2 tables.

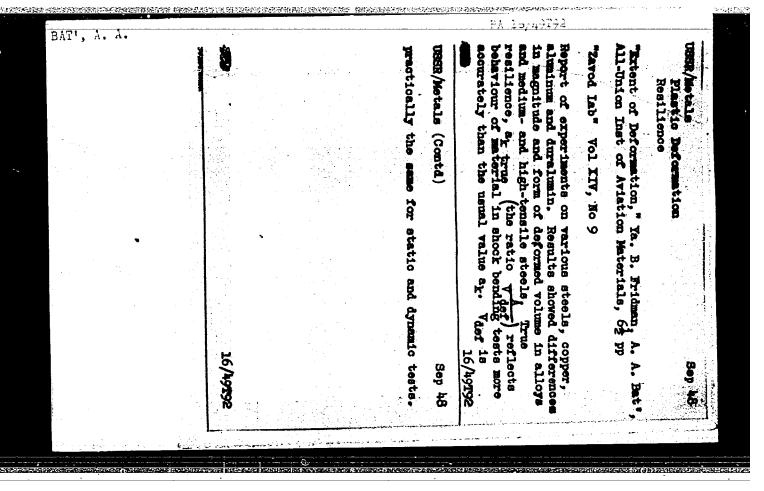
[Abstracter's note: Complete translation.]

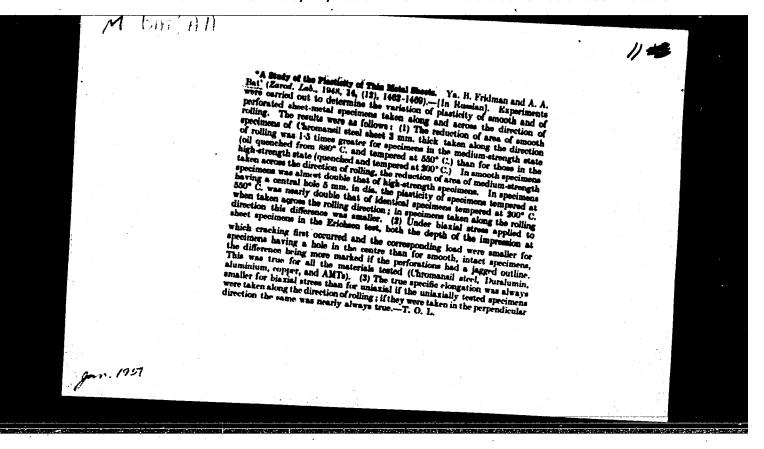
Card 2/2

Plastic deformations during the cold rolling of shell steel.
Prom. stroi. 39 no.7:18-22 '61. (MINA 14:7)

1. Institut Proyekstal'konstruktsiya. (Sheet steel)







BAT, A. A.

Journal of the Iron and Steel Institute Vol. 176 Part 3 Mar. 1954 Properties and Tests Evaluation of Each Platicity on Half-Ring and Primatical Speciments. 14. E. Friemer, A. A. Bat' and T. A. Volodina (Landshum Laternatives, 1950, 18, (8), 966-975). [In Russian]. A simple method for the evaluation of the sensitivity of metals to notching along and across the fibres during single static loading is reported. The method is based on the measurement of the notch plasticity of a notched specimen being bent by a static load, the plasticity being determined from the deflection in the plastic sone when the first crack appears. Deflection is found from the deformation diagram. For studying the transverse mechanical properties of small metal sections half-ring specimens are recommended. The method was tested on steels and some aluminium alloys at room temperature and at -70° C. In all tests the deflection changed more sharply than tougeness. The proposed method has the following advantages over the usual evaluation of materials by toughness: (a) Notch plasticity is determined independently of the strength of the material, thus enabling materials of different strength to be compared; (b) the use of half-ring specimens enables transverse notch-plasticity to be conveniently controlled in parts down to 15 min. in dia.; and (c) the method is time-consuming.—s. K.

BAT, AA

SUBJECT:

USSR/Welding.

135-6-2/13

AUTHOR:

Bat', A.A., Engineer.

TITLE:

Investigation of Fatigue Resistance in Welded Joints of Steel "HA-2." (Issledevaniye ustalestney prechnesti syarnykh seye-

dineniy iz stali"HA -2).

PERIODICAL:

"Swarechneye Preizvedstve", 1957, # 6, pp 4-7 (USSR)

ABSTRACT:

The investigation described had the purpose of determining the effect of structural heteregenity caused by welding, and of stress concentration caused by the geometric form of the joint. The factor of residual welding stresses has not been considered. (The author remarks that there is a great number of works dedicated to this problem, the results of which are contradictory). Reference is made to data in foreign literature.

The article gives a detailed description of the experimental technology; chemical composition and mechanical properties of steel " $H\Lambda$ -2" and "CT.3". The fatigue resistance values obtained are shown in diagrams plotted on logarithmic coordinates.

Card 1/2

The main conclusion is that the geometric stress concentration (i.e. the geometric form of joint) affects the resistance limit

TITLE:

· 135-6-2/13

Investigation of Fatigue Resistance in Welded Joints of Steel "HJ-2" (Issledovaniye ustalestney prechnosti svarnykh seyedineniy is stali "HJ-2").

independently of the presence of structural metal heterogenity. The effect of smeeth centeur transfer in the points of stress concentration has been known before, but the method of machining the welds to provide such smooth conteurs was based only on assumptions concerning the degree to which the stress concentration affects the strength of the joint, separately and in combination with heterogeneous structure. The present investigation provides a better grounded basis for technology.

The article contains 2 charts, 1 series of sketches, 5 diagram series, and 7 bibliographic references (4 of which are Russian).

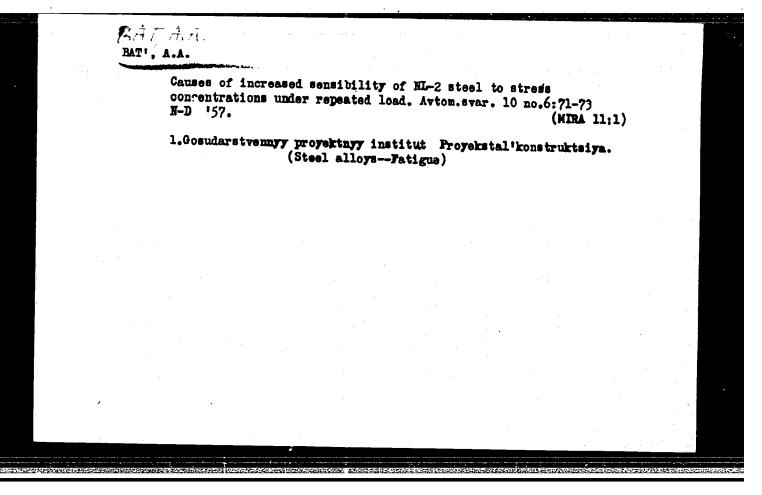
ASSOCIATION: State Prejecting Institute "Preyektstal'konstruktsiya".

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2



AUTHOR:

.A.A., Engineer. BAT 1

PA - 2506

TITLE:

Utilization of Low-Alloyed Steel for Weldable Constructions.

(Conference at the Institute for Metallurgy "A.A.Bajkow")

(Ispolsowania niskolegirowannoi stali dlia swarnykh konstruktsii,

Soweshchanie v institute metallurgii, Russian)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 2, pp 111 - 112

(U.S.S.R.)

Received: 5 / 1957

Reviewed: 6 / 1957

ABSTRACT:

One of the most important tasks for the organization of industry is the utilization of steel of greater strength and of low alloyed steels for weldable constructions.

In accordance with the instructions issued by the XX. Congress of the Communist Party of the U.S.S.R. concerning the sixth five year's plan the production of this type of steel is to be increased to seventeen times the quantity produced in 1955. This figure is to be reached by 1960.

On October 10th and 11th 1956 a conference was held with the participation of scientific representatives of Institutes, Universities, and industry in order to discuss the possibilities of the proper utilization of low-alloy steel in weldable constructions and coordination of the plans for scientific work to be carried out in this field. The conference was opened by W.Rykalin, corresponding

Card 1/3

PA - 2506

Utilization of Low-Alloyed Steel for Weldable Constructions. (Conference at the Institute for Metallurgy "A.A.Bajkow".)

member of the Academy of Science, who stressed the importance of developing scientific research with a view of the industrial utilization of low alloy steel for weldable constructions.G.L. Liwschiza, cand.tech.sc. dealt with some properties of alloyed steels for welded constructions. Also the importance of the production of new electrodes with a high melting coefficient for the welding of alloyed steels was pointed out. Dr.tech.sc. N.P.Schtschapow spoke about the advantages and disadvantages of low alloy steels and their use for weldable constructions. The basic advantages are: great strength, high degree of resistance against atmospheric corrosion, etc. Lack of low alloy steel causes welding seems to become sensitive as well as a concentration of stresses in the case of repeated stress being brought to bear on them. W.M.Kondratowitsch (Ministry for the Construction of transport machines) spoke about the use of low alloy steels for the construction of railroad cars. He believes that the production of nickel-containing steels on the basis of naturally alloyed ores is not enough in order to be able to produce good steels for the construction of railroad cars.G.I.Margolin and G.W.Malachowskij (Ministry for the Shipbuilding Industry) stated that heavy plate steel and

Card 2/3

PA - 2506

Utilization of Low-Alloyed Steel for Weldable Constructions. (Conference at the Institute for Metallurgy "A.A.Bajkow").

structural iron with a low content of carbon and manganese have a sufficient high plasticity limit, have good technological properties, and welds well. Therefore this steel is destined to be used for building tankers and large vehicles for industrial purposes. Unfortunately, a number of interesting reports were not delivered.

ASSOCIATION: Not given.

PRESENTED BY: SUBMITTED:

AVAILABLE:

Library of Congress.

Card 3/3

BAT', A.A.

AUTHOR:

Bat', A. A., Engineer.

30-9-43/48

TITLE:

On the Welding Stresses and the Durability of Welded Constructions (Swarochnyye napryazheniya i prochnost'

svarnykh konstruktsiy).

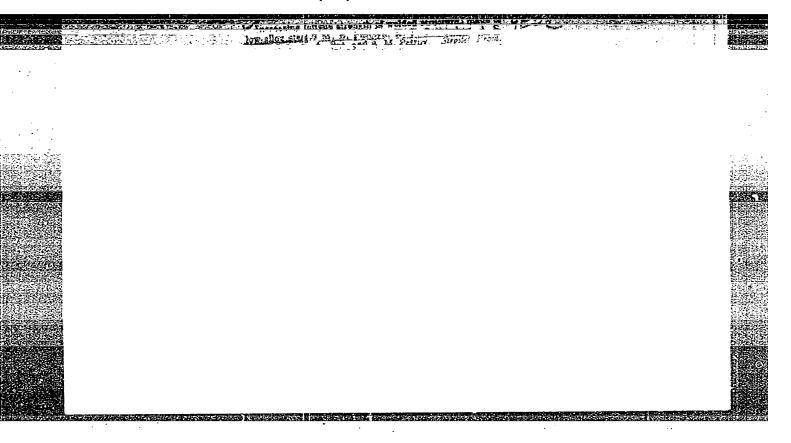
PERIODICAL: Vestnik AN SSSR, 1957, Vol. 27, Nr 9, pp. 130-131 (USSR)

ABSTRACT:

The investigation of the influence of welding stresses still existing in the constructions is of very great practical importance. It is sufficient to know that numerous destruction of hulls, bridge cranes, railroad bridges, oil reservoirs and many an other construction are to be traced back to the harmful action of residual stresses. The predominant opinion of engineers and designers coincides with the research data of the scientists. The consultation held in the Moscow Institute for Metallurgy on these problems was very informative. Some scientists took a negative attitude, as they advocated the opinion that balanced residual stresses cannot impair the stability of the constructions, that wery much depended on the material used. N. Rykalin, directed by the AN, outlined the next important

research tasks concerning this problem. Among these are:

Card 1/2



AUTHORS:

Bat', A. A., Gladshteyn, L. I.

30-58-3-39/45

TITLE:

Questions of the Treatment of Refractory Alloys

(Voprosy obrabotki zharoprochnykh splavov)

A Conference at the Institute for Engineering Sciences

(Soveshchaniye v Institute mashinovedeniya)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1958,

Nr 3

pp. 113-115 (USSR)

ABSTRACT:

Heat resistive alloys are at present being used in all branches of industry. In order to discuss problems are connected there with a conference was called on December 18th to December 21th

1957, by the Institute for Engineering Sciences and the

Commission for Technology of Machine Building of the AS USSR;

Work was carried out in plenary sessions and 4 sections (Casting, treatment under pressure, machining and welding). In numerous reports the specific properties of these alloys are investigated and new constructional solutions of machine parts requiring a new working technology were investigated. In the section dealing with castings (under the supervision of L. I. Fantalov, doctor of technical sciences) a report

Card 1/3

Questions of the Treatment of Refractory Alloys
A Conference at the Institute for Engineering Sciences

30-58-3-39/45

was made on vacuum smelting, as well as on the structural refining of cast steel. In the section on working under pressure (under the supervision of A. I. Tselikov, Corresponding Member of the AS USSR) thermomechanic regimes were dealt with, as well as the development of a modern technological equipment for the realization of high specific pressure. In the section on welding (under the supervision of G. A. Nikolayev, Corresponding Member: of the AS USSR) reports were delivered, among others on new methods of automatic welding in an atmosphere of carbonic acid gas, as well as on electric slag welding. In the section dealing with machining (under the supervision of A. I. Isayev, doctor of technical sciences) the production of cutting tools of particularly great durability was dealt with, in which case liquid carbonic acid is used as a coolant. Special attention was devoted to the problem of metal saving, because the various alloy elements (nickel, chromium, columbium, titanium, cobalt, molybdenum, tungsten, boron, and others) are rare and expensive. Therefore

Card 2/3

Questions of the Treatment of Refractory Alloys
A Conference at the Institute for Engineering Sciences

30-58-3-39/45

working methods are developed which permit a saving of Waste material (by accurate casting and punching, electric welding in a protective milieu). The following drawbacks were found to exist in the field of treatment of the heat-resistive alloys! Insufficient velocity of the solution of some practical problems, too little exchange of experience, the absence of a scientific coordination center. The following decisions were taken: Improvement of working methods in order to obtain a clean surface; development of new vacuum plants, mechanized furnaces, of steel qualities for punching work. of new electrodes; the working out of measures for the purpose of obtaining faultless welding-seams; the improvement of cutting processes: The congress also stressed the necessity of establishing a research coordination center at the Institute for Engineering Sciences of the AS USSR. At the same time an exhibition of scientific and of technical literature of Soviet and foreign origin dealing with this problem was held.

Card 3/3

AUTHORS:

Bat', A.A., and Gladshteyn, L.I.

SOV-28-58-4-11/35

TITLE:

Criteria for Evaluating Steel Proneness to Mechanical Aging (Kriterii otsenki sklonnosti stali k mekhanicheskomu sta-

PERIODICAL:

Standartizatsiya, 1958, Nr 4, pp 41 - 42 (USSR)

ABSTRACT:

The existing methods of determining proneness of steel to aging are not sufficient to explain the different causes of toughness or to recommend a deformation method for determining the proneness of steel to aging. It is necessary to develop a new method, based on a series of experiments with specimens which were investigated at different temperatures, both in their initial conditions and in conditions subsequent to aging. The value of the displacement of the critical interval of brittleness affected by cold hardening and annealing may serve as a quantitative criterion for determining steel proneness to aging. There are 3 graphs.

ASSOCIATION:

GPI Proyektstal'konstruktsiya

1. Steel--Mechanical properties

Card 1/1

AUTHORS: Pridantsev, M. V., Doctor of Technical Science, Professor; Bat'. A.A. Engineer, Gladshteyn, L. I., Engineer, and Levinzon, Kh. Sh.

TITLE: Heat-mr

Heat-Treated Steel, St. 3kp. hrand, for Building Structures (Termicheski obrabotannaya stal' marki St. 3kp dlya stroitel'nykh konstruktsiy)

PERIODICAL: Stal', 1958, Nr 5, pp 449-456 (USSR)

ABSTRACT: About 80% of steel used in the building industry consists of low carbon rimming steel St.3kp delivered in a hot rolled state with comparatively low mechanical properties. Therefore, some improvement of this steel by a heat treatment on the works is of particular importance. In the paper an investigation of the properties of the steel heat treated under works conditions (Nizhniy Tagil Combine) representative of the normal works output is described. Steel plates 1500 x 6000 mm, 12, 20 and 40 mm thick from two heats representative of the low and upper limits of carbon content were taken for the investigation (GOST-380-50). The composition in %:

MnSi Cr Ni Cu P S 0.14 0.47 traces .03 .03 0.24 .025 .044 Card 1/5 0.19 0.54 traces .02 .04 0.25 .017 .033

"APPROVED FOR RELEASE: 06/06/2000

Heat-Treated Steel, St. 34p braidfor Building Structures

Two modifications of heat treatment were tested: hardening without annealing (heating to 930°C, soaking for 20 to 45 minutes, depending on the plate thickness, cooling in running water for 3 to 6 minutes, depending on the plate thickness, before dipping into water, the temperature of the plates usually fell to 840 to 880°C) and hardening with annealing (at 580 to 600°C for eight hours). Mechanical properties, tendency to mechanical ageing and weldability of the specimens cut from heat treated plates were investigated. Table 1 - mechanical properties of steel specimens cut from edges of plates as hot rolled (GK), hardened (Z) and hardened and annealed (Z + 0); Table 2 chemical composition and mechanical properties of heat treated steel specimens cut out some distance from the plate edges. Fig. 1, the dependence of the impact strength on the test temperature; Fig. 2 - the microstructure of hardened steel. A low tendency of thermally treated carbon rimming steel to ageing is due to its low temperature of brittleness in the initial state. In order to check this view as well as to determine the impact strength Card 2/5 at various temperatures before and after ageing depending

133-58-5-22/31 Heat-Treated Steel, St. 3cp brand, for Building Structures

on the conditions of thermal treatment a number of experiments were carried out with 12 mm thick plates. Specimens 260 to 80 mm were heated to 930 °C, soaked at this temperature for 30 minutes and then cooled with four various velocities (Fig. 3). The microstructure of steel after all four types of thermal treatment is shown in Fig.4. The ageing action on steel after various thermal treatments was evaluated not only by changes in the impact strength at a few temperatures (+20 to -20°C) but also by the direct value of the shift of the critical temperature interval of brittleness. The dependence of the impact strength on the test temperature for the three cooling velocities A - with furnace, B in air and V in oil with the indication of the nature of fracture are given in Fig. 5, and the dependence of the temperature range of brittleness on the mean linear size of grain in Fig.6. In investigations of the weldability of St.3kp steel hardened, in order to decrease its tendency to brittle destruction and to increase its strength, special attention was paid to retaining these properties. The influence of

Card 3/5 welding on the first property was evaluated from the impact

133-58-5-22/31 Heat-Treated Steel, St. 3kp brand for Building Structures

strength of the welded zone and on the second property from tensile tests. The dependence of the impact strength in the zone of welding on the consumption of power per unit of length of welds is shown in Fig. 8 and on the test temperature - Fig. 10. The results of tests of welded joints welded manually and automatically are given in Table 3. The preparation of edges for welding is shown in Fig.9. Conclusions: Thermal treatment (hardening without annealing) of low carbon steel St.3kp for structural purposes is advantageous as the metal obtains increased strength and lowered tendency to brittle fracture in comparison with the hot rolled steel of the same type. Plates of 12 to 40 mm thick hardened without annealing possess the yield strength not less than 30 kg/mm², the impact strength after mechanical ageing 4 to 6 kg cm² and the threshold of brittleness not above -60°C. The beneficial influence of thermal treatment is a decrease in the size of ferrite grains during hardening. The mechanical properties of welded joints remain near to those of the metal itself.

Card 4/5 Welding can be carried out under the same conditions as

Heat-Treated Steel, St. 3kp band for Building Structures

for hot rolled steel. A more complete utilisation of the increased strength of hardened carbon steel would be possible on development of special electrodes and electrode wire. During the production of hardened steel the upper limit of its carbon content should be limited. The steel investigated can be recommended for welded structures. The following participated in the work: from Nizhniy Tagil Combine: Ye. Z. Freydenzon, L. A. Natutskaya, N. A. Chinikova, A. I. Arshinov, A. Ye. Berkser, I. A. Burdina and from Tenlichm: I. M. Vyshvaynyuk and Yu. I. Lebedev. There are 3 tables, 10 figures and 5 references, all of which are Soviet.

ASSOCIATIONS: TsNIIChM and GPI Proyektstal'konstruktsiya

Card 5/5

AUTHOR:

Bat', A.A.

SOV-125-58-8-10/16

TITLE:

Some Data on Vibrational Strength of "St. 3 kp" Hardened Steel (Nekotoryye dannyye o vibratsionnoy prochnosti zakalennoy

stali St. 3 kp)

PERIODICAL:

Avtomaticheskaya svarka, 1958, Nr 8, pp 63-68 (USSR)

ABSTRACT:

During recent years extensive studies of heat-treated rimming open-hearth "st. 3 kp" steel have been conducted in the USSR. Information is presented on an experimental investigation of the vibrational strength of "St.3 kp" steel beams. Information includes detailed descriptions of experiments and photographs of observed fatigue cracks. It was stated that fatigue cracks can occur under repeated compression at comparatively slight stress concentration caused by a small pore. The effect of preliminary repeated compression on the results of subsequently repeated tension could not be determined. Hardened "St 3" steel proved less sensitive to stress concentration than "NL2" steel. The preliminary conclusion, that the higher static strength of structural steel entails higher sensitivity to stress concentrations under repeated loadings, coincides with conclusions made by Professor N.O.

Card 1/2

Okerblom.

SOV-125-58-8-10/16

Some Data on Vibrational Strength of "St. 3 kp" Hardened Steel

There is 1 diagram, 2 graphs , 1 table, 3 photos and 4 Soviet

references.

ASSOCIATION: GPI "Proyektstal'konstruktsiya"

SUBMITTED: May 7, 1958

1. Steel--Vibration 2. Steel--Test results

Card 2/2

BAT', A.A.; GLADSHTEYN, L.I.

Evaluating the tendency of steel to mechanical aging. Standartizatsiia 22 no.4:41-42 J1-Ag '58. (MIRA 11:10)

1.Gosudarstvennyy proyektnyy institut Proyektstal'konstruktsiya. (Steel--Testing)

PRIDANTSEV, M.V., prof.; BAT', A.A., inzh.; GIADSHTEYN, L.I., inzh.; LEVINZON, Kh., Sh., inzh.

The ST. Zkp chilled steel as a new prospective material for steel structures. Stroi. prom. 36 no.2:38-39 F '58. (MIRA 11:2)

1. Gosudarstvennyy proyektnyy institut Proyektstal'konstruktsiya i TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. (Steel, Structural)

BAT', A. A. Cand Tech Soi -- (diss) "Regime of the operation of crane girders and the calculation of their strength." Mos, 1859. 18 pp including cover (Min of Higher and Secondary Specialized Education RSFSR. Mos Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybysher), 200 copies (KL, 52-59, 120)

-58-

18(7) AUTHOR:

Bat' A.A., Engineer

SOV/125-59-5-11/16

TITLE:

Data on Vibratory Strength of Low Alloyed Steel Type

14G and 19G

PERIODICAL:

Avtomaticheskaya svarka, 1959, Vol 12, Nr 5 (74) pp 91-92 (USSR)

ABSTRACT:

The author presents the results of a test which was made to find the characteristic qualities of the Steel 14G and 19G. Welded H-beams of Steel 14G and 19G were tested. The results are given in the schedule. The fatigue limit of H-beams of steel 14G and 19G with ribs welded on their strake was at 20 Kg/mm², that means, that it is considerably higher than in H-beams with stiffening ribs, not welded on the strake. There are

1 graph and 1 table..

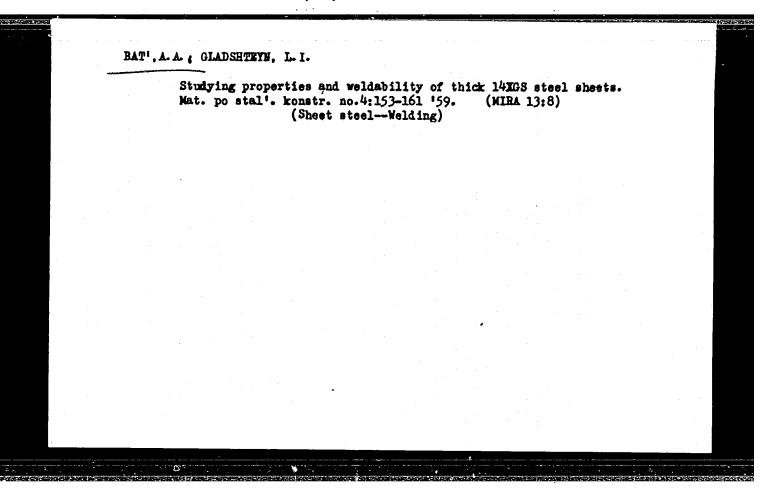
ASSOCIATION: Institut "Proyektstal konstruktsiya" (Institute

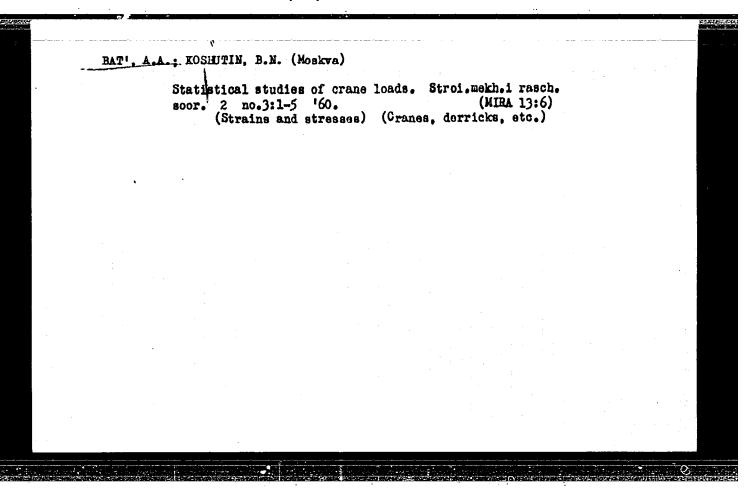
"proyektstal'konstruktsiya")

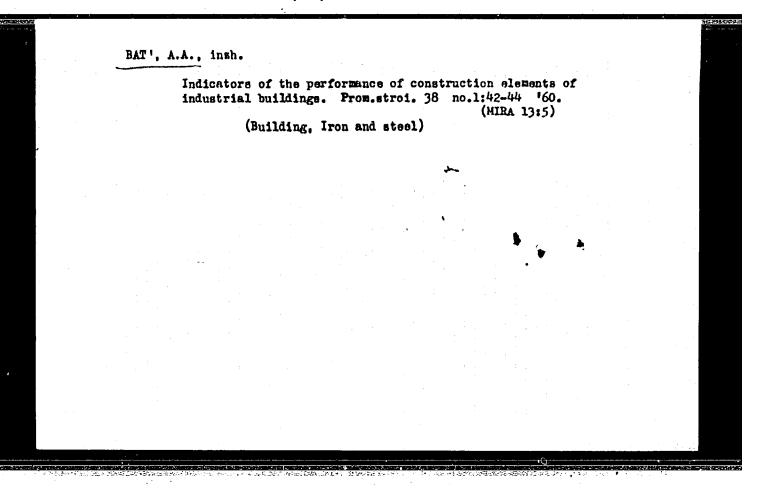
SUBMITTED:

February 19, 1959

Card 1/1







244200

25236

S/122/60/000/002/003/018 A161/A130

AUTHOR'S:

Bat', A. A., Engineer; Shapiro, G. A., Doctor of Technical Sciences

TITLE:

Steel structures endurance calculation

PERIODICAL: Vestnik mashinostroyeniya, no. 2, 1960, 13 - 17

TEXT: Fatigue cracks have been revealed in the course of several years in some elements of steel structures, particularly in welded crane way beams. The authors criticize the standard Soviet calculation method "NITU 121-55" which does not consider varying service conditions of structures, stress the difference between the service of machine parts and structural elements, the detrimental effect of arc welding and riveting used for structures, etc. In their opinion the fundamental calculation rule must be to let the maximum stresses in the calculated element not exceed the rated fatigue resistance $R_{\text{VCT}}(R_{\text{fat}})$ being equal (with a strength reserve) to the endurance limit calculated for the load cycles number N for the whole life time of the structure. It is recommended to determine the analytical dependence of R_{fat} on the fundamental parameters affecting the endurance limit (mainly in tension) by two combined equations:

Card 1/4

25236

Steel structures endurance calculation

S/122/60/000/002/003/018 A161/A130

$$\delta_{[N\neq 2\cdot 10^6]}^{m} = \delta_{[N=2\cdot 10^6]}^{m} \cdot 2 \cdot 10^6;$$
 (1)

$$\delta_{[N=2\cdot10^6]} = \frac{1}{(\frac{\beta}{2\zeta_{-1}} + \frac{1}{2s_b}) - (\frac{\beta}{2\delta_{-1}} - \frac{1}{2s_b})\rho'}$$
(2)

the first of which expresses the Veler curve, and the second the basic straight branch of the Smith diagram. This second equation has been derived assuming that the straight Smith diagram branch passes points with stress values equal to the endurance limit δ_{-1} (ρ = -1 and N = 2 million) and the ultimate tensile stress limit 6. This condition is right for construction steel with a rolled surface, and the second equation takes into account the effect of the effective stress concentration factor (β). As stated in Ref. 3 [Gokhberg, M. M., Metallicheskiye konstruktsii kranor (Metal structures of cranes), Mashgiz, 1959] δ_{-1} at N = 2 million equals one third of δ_b in steel with a rolled surface, and equations (1) and (2) give $\delta_{\left[N \neq 2 \cdot 10^6\right]} = \frac{2\delta_b \sqrt[m]{\frac{2 \cdot 10^6}{N}}}{(3\beta + 1) - (3\beta - 1)\rho} \, \text{kg/mm}^2, \tag{3}$

Card 2/4

Steel structures endurance calculation

236 S/122/60/000/002/003/018 A161/A130

or the rated fatigue resistance. <u>2</u>.106 The factor can be presented in a short numerical table (Table 2) if all structural steel grades are divided into two classes by the fatigue resistance, and the joints into several types with a certain β factor: The fatigue resistance can then be determined simply and quickly. The stresses from work loads must also be calculated, and the real service of the crane way beams in various shops in metallurgical works had been studied (Ref. 2; A. A. Bat', O raschete na vynoslivost', "Stroitel'naya mekhanika i raschet sooruzheniy", no. 5, 1959), and it was stated that the stress varied in a wide range of 19 to 365 thousand times a year, and the stress values from 210 to 810 kg/cm2. A draft "Instruction for designing steel structures of industrial buildings and constructions taking fatigue into consideration" had been set up after the observations. The Instruction includes rules that can eliminate the calculation of the endurance limit of crane way beams. The Instruction draft has been developed by two organizations: the "Proyektstal'konstruktsiya" Institute and the Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy (Central Scientific Research Institute for Structural Parts). The aspects discussed in this article apply in a part for cranes, bridges and RR cars structures. There are 3 tables and 5 Soviet-bloc references.

Card 3/4